

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

207 Human Secreted Proteins

the specification of which was filed on **December 4, 1998** as Application Serial No. **Serial No: 09/205,258**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed
Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

	Filing Date	Appln No.
1.	06-Jun-1997	60/048,885
2.	06-Jun-1997	60/049,375
3.	06-Jun-1997	60/048,881
4.	06-Jun-1997	60/048,880
5.	06-Jun-1997	60/048,896
6.	06-Jun-1997	60/049,020
7.	06-Jun-1997	60/048,876
8.	06-Jun-1997	60/048,895
9.	06-Jun-1997	60/048,884
10.	06-Jun-1997	60/048,894
11.	06-Jun-1997	60/048,971
12.	06-Jun-1997	60/048,964
13.	06-Jun-1997	60/048,882
14.	06-Jun-1997	60/048,899
15.	06-Jun-1997	60/048,893
16.	06-Jun-1997	60/048,900
17.	06-Jun-1997	60/048,901
18.	06-Jun-1997	60/048,892
19.	06-Jun-1997	60/048,915
20.	06-Jun-1997	60/049,019
21.	06-Jun-1997	60/048,970
22.	06-Jun-1997	60/048,972

23.	06-Jun-1997	60/048,916
24.	06-Jun-1997	60/049,373
25.	06-Jun-1997	60/048,875
26.	06-Jun-1997	60/049,374
27.	06-Jun-1997	60/048,917
28.	06-Jun-1997	60/048,949
29.	06-Jun-1997	60/048,974
30.	06-Jun-1997	60/048,883
31.	06-Jun-1997	60/048,897
32.	06-Jun-1997	60/048,898
33.	06-Jun-1997	60/048,962
34.	06-Jun-1997	60/048,963
35.	06-Jun-1997	60/048,877
36.	06-Jun-1997	60/048,878
37.	05-Sep-1997	60/057,645
38.	05-Sep-1997	60/057,642
39.	05-Sep-1997	60/057,668
40.	05-Sep-1997	60/057,635
41.	05-Sep-1997	60/057,627
42.	05-Sep-1997	60/057,667
43.	05-Sep-1997	60/057,666
44.	05-Sep-1997	60/057,764
45.	05-Sep-1997	60/057,643

46.	05-Sep-1997	60/057,769
47.	05-Sep-1997	60/057,763
48.	05-Sep-1997	60/057,650
49.	05-Sep-1997	60/057,584
50.	05-Sep-1997	60/057,647
51.	05-Sep-1997	60/057,661
52.	05-Sep-1997	60/057,662
53.	05-Sep-1997	60/057,646
54.	05-Sep-1997	60/057,654
55.	05-Sep-1997	60/057,651
56.	05-Sep-1997	60/057,644
57.	05-Sep-1997	60/057,765
58.	05-Sep-1997	60/057,762
59.	05-Sep-1997	60/057,775
60.	05-Sep-1997	60/057,648
61.	05-Sep-1997	60/057,774

62.	05-Sep-1997	60/057,649
63.	05-Sep-1997	60/057,770
64.	05-Sep-1997	60/057,771
65.	05-Sep-1997	60/057,761
66.	05-Sep-1997	60/057,760
67.	05-Sep-1997	60/057,776
68.	05-Sep-1997	60/057,778
69.	05-Sep-1997	60/057,629
70.	05-Sep-1997	60/057,628
71.	05-Sep-1997	60/057,777
72.	05-Sep-1997	60/057,634
73.	18-Dec-1997	60/070,923
74.	15-Jul-1998	60/092,921
75.	30-Jul-1998	60/094,657

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US98/11422

(Application Serial No.)

04 June 1998

(Filing Date)

Pending

(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of additional joint inventor:

Paul Young

Inventor's signature:

Residence: 122 Beckwith Street, Gaithersburg, MD 20878

Post Office Address: same as above

Date:

6/3/99

Citizenship: US

Full name of additional joint inventor:

John M. Greene

Inventor's signature:

Residence: 872 Diamond Drive, Gaithersburg, MD 20878

Post Office Address: same as above

Date:

Citizenship: DE

46.	05-Sep-1997	60/057,769
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Full name of additional joint inventor:

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Inventor's signature:

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Full name of additional joint inventor:

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Full name of additional joint inventor: Henrik S. Olsen
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Full name of additional joint inventor: Reinhard Ebner
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Full name of additional joint inventor: Laurie A. Brewer
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Full name of additional joint inventor: Ann M. Ferrie

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Date: _____

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Full name of additional first joint inventor: Steven M. Ruben

Inventor's signature: Steve M. Ruben

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Full name of additional joint inventor: Craig A. Rosen

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Full name of additional joint inventor: Jing-Shan Hu

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Full name of additional joint inventor: Henrik S. Olsen

Inventor's signature: Henrik S. Olsen

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Full name of additional joint inventor: Reinhard Ebner

Inventor's signature: Reinhard Ebner

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Full name of additional joint inventor: Laurie A. Brewer

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Full name of additional joint inventor: Paul A. Moore

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Date: 5/13/99

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Full name of additional joint inventor: Yanggu Shi

Inventor's signature: Yanggu Shi

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Ref No: PZ007P1
Serial No: 09/205,258

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Full name of additional joint inventor: Laurie A. Brewer

Inventor's signature: Laurie A. Brewer Date: 10/10/99
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Post Office Address: same as above


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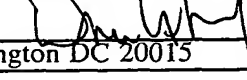
Full name of additional joint inventor: Charles Florence

Inventor's signature:  Date: 5-17-99
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Post Office Address: same as above


Full name of additional joint inventor: Kimberly Florence

Inventor's signature:  Date: 5/13/99
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Full name of additional joint inventor: David W. Lafleur

Inventor's signature:  Date: 5/13/99
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Full name of additional joint inventor: Jian Ni

Inventor's signature:  Date: 5/2/99
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Post Office Address: same as above

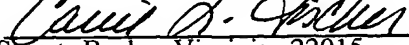
Full name of additional joint inventor: Ping Fan

Inventor's signature: _____ Date: _____
Residence: 335 West Side Drive, Apt. 302, Gaithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above


Full name of additional joint inventor: Ying-Fei Wei

Inventor's signature: _____ Date: _____
Residence: 242 Gravatt Dr., Berkeley, California 94705 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Carrie L. Fischer

Inventor's signature:  Date: 05/10/99
Residence: 5810 Hall Street, Burke, Virginia 22015 Citizenship: US
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Full name of additional joint inventor: Daniel R. Soppet

Inventor's signature:  Date: 5/11/99
Residence: 15050 Stillfield Place, Centreville, VA 22020 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Yi Li

Inventor's signature: _____ Date: _____
Residence: 1247 Lakeside Drive, #3034, Sunnyvale, CA 94086 Citizenship: CN
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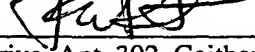
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Post Office Address: same as above

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Inventor's signature: _____ Date: _____
Residence: 5502 Manorfield Road, Rockville, MD 20853 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Ping Fan

Inventor's signature:  Date: June 11, 1999
Residence: 335 West Side Drive, Apt. 302, Gaithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Ying-Fei Wei

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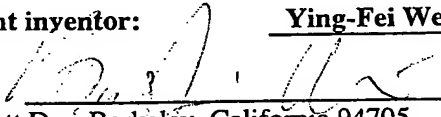
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Full name of additional joint inventor: Ying-Fei Wei

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Full name of additional joint inventor: Carrie L. Fischer

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Full name of additional joint inventor: Guo-Liang Yu
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301-309-8504 Phone 301-309-8439 Fax

Full name of additional joint inventor: Zhizhen Zeng

Inventor's signature: _____ Date: _____
Residence: 13950 Saddlevue Drive, Gaithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Hla Kyaw

Inventor's signature: [Signature] Date: 6/7/99
Residence: 520 Sugarbush Circle, Frederick, MD 21703 Citizenship: Burma
Post Office Address: same as above

Full name of additional joint inventor: Guo-Liang Yu

Inventor's signature: _____ Date: _____
Residence: 242 Gravatt Dr., Berkeley, California 94705 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Ping Feng

Inventor's signature: _____ Date: _____
Residence: 4 Relda Court, Gaithersburg, MD 20878 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Patrick J. Dillon

Inventor's signature: _____ Date: _____
Residence: 1055 Snipe Court, Carlsbad, CA 92009 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Gregory A. Endress

Inventor's signature: _____ Date: _____
Residence: 9729 Clagett Farm Drive, Potomac, MD 20854 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Kenneth C. Carter

Inventor's signature: _____ Date: _____
Residence: 11601 Brandy Hall Lane, North Potomac, MD 20878 Citizenship: US
Post Office Address: same as above

Human Genome Sciences, Inc.
9410 Key West Avenue Rockville, MD 20850
301-309-8504 Phone 301-309-8439 Fax

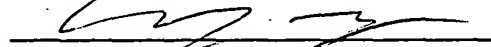
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Residence: 520 Sugarbush Circle, Frederick, MD 21703 Citizenship: Burma
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Full name of additional joint inventor: Guo-Liang Yu

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Residence: 242 Gravatt Dr., Berkeley, California 94705 Citizenship: _____
Post Office Address: same as above

Full name of additional joint inventor: Ping Feng

Inventor's signature: Ping Feng Date: 5/24/99
Residence: 4 Relda Court, Gaithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Patrick J. Dillon

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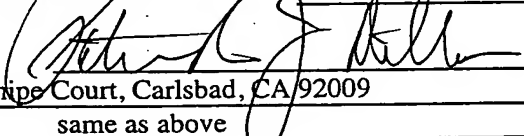
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Inventor's signature: Gregory A. Endress Date: 12/3/99
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Post Office Address: same as above

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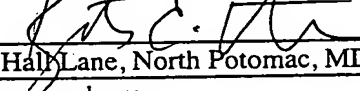
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Post Office Address: same as above

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Post Office Address: same as above

Human Genome Sciences, Inc.
9410 Key West Avenue Rockville, MD 20850
301-309-8504 Phone 301-309-8439 Fax

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Young et al.

Serial No.: 09/205,258

Group Art Unit: 1631

Filed: December 4, 1998

Examiner: Moran, M.

Title: **Precerebellin-like protein**
(as amended)

Attorney Docket No.: PZ007P1

ASSOCIATE POWER OF ATTORNEY

Commissioner for Patents
Washington, D.C. 20231

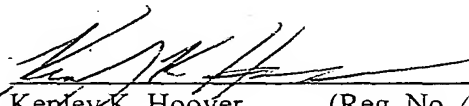
Sir:

Applicants' attorney hereby appoints all Practitioners at **Customer Number 22195** as its attorneys or agents with full power of substitution, association, and revocation to prosecute the application identified above, including any continuation or divisional applications, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Applicants' attorney also requests that the correspondence address remain the same.

Respectfully submitted,

Date: November 14, 2001


Kenley K. Hoover (Reg. No. 40,302)
Attorney for Applicants

Human Genome Sciences, Inc.
9410 Key West Avenue
Rockville, MD 20850
(301) 610-5771 (phone)

KKH/lcc

10004360-120701

Ref No: PZ007P1
Serial No. 09/205,258

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Jing-Shan Hu; Henrik S. Olsen; Reinhard Ebner; Laurie A. Brewer; Paul A. Moore; Yanggu Shi; Charles Florence; Kimberly Florence; David W. Lafleur; Jian Ni; Ping Fan; Ying-Fei Wei; Carrie L. Fischer; Daniel R. Soppet; Yi Li; Zhizhen Zeng; Hla Kyaw; Guo-Liang Yu; Ping Feng; Patrick J. Dillon; Gregory A. Endress; and Kenneth C. Carter, hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

207 Human Secreted Proteins

for which application for United States Letters Patent was filed on December 4, 1998 and assigned Serial No.09/205,258, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants the power to A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: Paul Young Date: 6/3/99

Inventor's Signature: John M. Greene Date: _____

Inventor's Signature: Ann M. Ferrie Date: _____

Ref No: PZ007P1
Serial No. 09/205,258Inventor's Signature: Steven M. Ruben Date: 5/11/99Inventor's Signature: Craig A. Rosen Date: 5/10/99Inventor's Signature: Jing-Shan Hu Date: _____Inventor's Signature: Henrik S. Olsen Date: 5/10/99Inventor's Signature: Reinhard Ebner Date: 5/10/99Inventor's Signature: Laurie A. Brewer Date: _____Inventor's Signature: Paul A. Moore Date: 5/13/99Inventor's Signature: Yanggu Shi Date: 5/14/99Inventor's Signature: Charles Florence Date: 5/17/99Inventor's Signature: Kimberly Florence Date: 5/13/99Inventor's Signature: David W. Lafleur Date: 5/13/99Inventor's Signature: Jian Ni Date: 5/12/99Inventor's Signature: Ping Fan Date: _____Inventor's Signature: Ying-Fei Wei Date: _____Inventor's Signature: Carrie L. Fischer Date: 05/10/99

Ref No: PZ007P1
Serial No. 09/205,258Inventor's Signature: *Daniel R. Soppet* Date: 5/11/99
Daniel R. SoppetInventor's Signature: _____ Date: _____
Yi LiInventor's Signature: _____ Date: _____
Zhizhen ZengInventor's Signature: _____ Date: _____
Hla KyawInventor's Signature: _____ Date: _____
Guo-Liang YuInventor's Signature: *Ping Feng* Date: 5/24/99
Ping FengInventor's Signature: _____ Date: _____
Patrick J. DillonInventor's Signature: _____ Date: _____
Gregory A. EndressInventor's Signature: _____ Date: _____
Kenneth C. CarterHuman Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

Ref No: PZ007P1
Serial No. 09/205,258

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Jing-Shan Hu; Henrik S. Olsen; Reinhard Ebner; Laurie A. Brewer; Paul A. Moore; Yanggu Shi; Charles Florence; Kimberly Florence; David W. Laffeur; Jian Ni; Ping Fan; Ying-Fei Wei; Carrie L. Fischer; Daniel R. Soppet; Yi Li; Zhizhen Zeng; Hla Kyaw; Guo-Liang Yu; Ping Feng; Patrick J. Dillon; Gregory A. Endress; and Kenneth C. Carter, hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

207 Human Secreted Proteins

for which application for United States Letters Patent was filed on December 4, 1998 and assigned Serial No.09/205,258, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

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IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: _____ Date: _____

Paul Young

Inventor's Signature: _____

John M. Greene

Date: JUNE 3, 1999

Inventor's Signature: _____ Date: _____

Ann M. Ferrie

Ref No: PZ007P1
Serial No. 09/205,258Inventor's Signature: Steven M. Ruben Date: _____Inventor's Signature: Craig A. Rosen Date: _____Inventor's Signature: Jing-Shan Hu Date: _____Inventor's Signature: Henrik S. Olsen Date: _____Inventor's Signature: Reinhard Ebner Date: _____Inventor's Signature: Laurie A. Brewer Date: _____Inventor's Signature: Paul A. Moore Date: _____Inventor's Signature: Yanggu Shi Date: _____Inventor's Signature: Charles Florence Date: _____Inventor's Signature: Kimberly Florence Date: _____Inventor's Signature: David W. Lafleur Date: _____Inventor's Signature: Jian Ni Date: _____Inventor's Signature: Ping Fan Date: _____Inventor's Signature: Ying-Fei Wei Date: _____Inventor's Signature: Carrie L. Fischer Date: _____

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Gregory A. EndressInventor's Signature: _____ Date: _____
Kenneth C. Carter.Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

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Serial No. 09/205,258

Inventor's Signature: Daniel R. Soppet Date: _____

Inventor's Signature: Yi Li Date: _____

Inventor's Signature: Zhizhen Zeng Date: _____

Inventor's Signature: Hla Kyaw Date: _____

Inventor's Signature: Guo-Liang Yu Date: _____

Inventor's Signature: Ping Feng Date: _____

Inventor's Signature: Patrick J. Dillon Date: _____

Inventor's Signature: Gregory A. Endress Date: _____

Inventor's Signature: Kenneth C. Carter. Date: _____

Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

Ref No: PZ007P1
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Paul Young

Inventor's Signature: _____ Date: _____
John M. Greene

Inventor's Signature: _____ Date: _____
Ann M. Ferrie

Ref No: PZ007P1
Serial No. 09/205,258Inventor's Signature: Steven M. Ruben Date: _____Inventor's Signature: Craig A. Rosen Date: _____Inventor's Signature:  4/1 Date: 9/1/99Inventor's Signature: Henrik S. Olsen Date: _____Inventor's Signature: Reinhard Ebner Date: _____Inventor's Signature: Laurie A. Brewer Date: _____Inventor's Signature: Paul A. Moore Date: _____Inventor's Signature: Yanggu Shi Date: _____Inventor's Signature: Charles Florence Date: _____Inventor's Signature: Kimberly Florence Date: _____Inventor's Signature: David W. Lafleur Date: _____Inventor's Signature: Jian Ni Date: _____Inventor's Signature: Ping Fan Date: _____Inventor's Signature: Ying-Fei Wei Date: _____Inventor's Signature: Carrie L. Fischer Date: _____

10004860-120701

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Inventor's Signature: Daniel R. Soppet Date: _____

Inventor's Signature: Yi Li Date: _____

Inventor's Signature: Zhizhen Zeng Date: _____

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Inventor's Signature: Guo-Liang Yu Date: _____

Inventor's Signature: Ping Feng Date: _____

Inventor's Signature: Patrick J. Dillon Date: _____

Inventor's Signature: Gregory A. Endress Date: _____

Inventor's Signature: Kenneth C. Carter. Date: _____

10004360 120701

Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

Ref No: PZ007P1
Serial No. 09/205,258

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Jing-Shan Hu; Henrik S. Olsen; Reinhard Ebner; Laurie A. Brewer; Paul A. Moore; Yanggu Shi; Charles Florence; Kimberly Florence; David W. Lafleur; Jian Ni; Ping Fan; Ying-Fei Wei; Carrie L. Fischer; Daniel R. Soppet; Yi Li; Zhizhen Zeng; Hla Kyaw; Guo-Liang Yu; Ping Feng; Patrick J. Dillon; Gregory A. Endress; and Kenneth C. Carter, hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

207 Human Secreted Proteins

for which application for United States Letters Patent was filed on December 4, 1998 and assigned Serial No.09/205,258, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

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Laurie A. BrewerInventor's Signature: Paul A. Moore Date: _____Inventor's Signature: Yanggu Shi Date: _____Inventor's Signature: Charles Florence Date: _____Inventor's Signature: Kimberly Florence Date: _____Inventor's Signature: David W. Lafleur Date: _____Inventor's Signature: Jian Ni Date: _____Inventor's Signature: Ping Fan Date: _____Inventor's Signature: Ying-Fei Wei Date: _____Inventor's Signature: Carrie L. Fischer Date: _____

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Kenneth C. Carter

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Paul A. MooreInventor's Signature: _____ Date: _____
Yanggu ShiInventor's Signature: _____ Date: _____
Charles FlorenceInventor's Signature: _____ Date: _____
Kimberly FlorenceInventor's Signature: _____ Date: _____
David W. LafleurInventor's Signature: _____ Date: _____
Jian NiInventor's Signature:  Date: June 11 1999
Ping FanInventor's Signature: _____ Date: _____
Ying-Fei WeiInventor's Signature: _____ Date: _____
Carrie L. Fischer

Ref No: PZ007P1
Serial No. 09/205,258

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Human Genome Sciences, Inc.
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207 Human Secreted Proteins

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Ann M. Ferrie

Ref No: P2007P1
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Human Genome Sciences, Inc.
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Inventor's Signature: Jing-Shan Hu Date: _____

Inventor's Signature: Henrik S. Olsen Date: _____

Inventor's Signature: Reinhard Ebner Date: _____

Inventor's Signature: Laurie A. Brewer Date: _____

Inventor's Signature: Paul A. Moore Date: _____

Inventor's Signature: Yanggu Shi Date: _____

Inventor's Signature: Charles Florence Date: _____

Inventor's Signature: Kimberly Florence Date: _____

Inventor's Signature: David W. Lafleur Date: _____

Inventor's Signature: Jian Ni Date: _____

Inventor's Signature: Ping Fan Date: _____

Inventor's Signature: Ying-Fei Wei Date: _____

Inventor's Signature: Carrie L. Fischer Date: _____

Ref No: PZ007P1
Serial No. 09/205,258

Inventor's Signature: _____ Date: _____
Daniel R. Soppet

Inventor's Signature: _____ Date: _____
Yi Li

Inventor's Signature: _____ Date: _____
Zhizhen Zeng

Inventor's Signature: _____ Date: 6/7/99.
Hla Kyaw

Inventor's Signature: _____ Date: _____
Gao-Liang Yu

Inventor's Signature: _____ Date: _____
Ping Feng

Inventor's Signature: _____ Date: _____
Patrick J. Dillon

Inventor's Signature: _____ Date: _____
Gregory A. Endress

Inventor's Signature: _____ Date: _____
Kenneth C. Carter.

Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

Ref No: PZ007P1
Serial No. 09/205,258

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Jing-Shan Hu; Henrik S. Olsen; Reinhard Ebner; Laurie A. Brewer; Paul A. Moore; Yanggu Shi; Charles Florence; Kimberly Florence; David W. Lafleur; Jian Ni; Ping Fan; Ying-Fei Wei; Carrie L. Fischer; Daniel R. Soppet; Yi Li; Zhizhen Zeng; Hla Kyaw; Guo-Liang Yu; Ping Feng; Patrick J. Dillon; Gregory A. Endress; and Kenneth C. Carter, hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

207 Human Secreted Proteins

for which application for United States Letters Patent was filed on December 4, 1998 and assigned Serial No.09/205,258, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants the power to A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

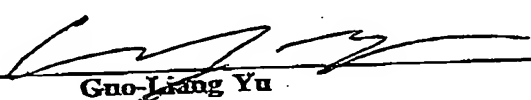
IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: _____ Date: _____
Paul Young

Inventor's Signature: _____ Date: _____
John M. Greene

Inventor's Signature: _____ Date: _____
Ann M. Ferrie

Ref No: PZ007P1
Serial No. 09/205,258Inventor's Signature: _____ Date: _____
Steven M. RubenInventor's Signature: _____ Date: _____
Craig A. RosenInventor's Signature: _____ Date: _____
Jing-Shan HuInventor's Signature: _____ Date: _____
Henrik S. OlsenInventor's Signature: _____ Date: _____
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Ying-Fei WeiInventor's Signature: _____ Date: _____
Carrie L. Fischer

Ref No: PZ007P1
Serial No. 09/205,258Inventor's Signature: Daniel R. Soppet Date: _____Inventor's Signature: Yi Li Date: _____Inventor's Signature: Zhizhen Zeng Date: _____Inventor's Signature: Hla Kyaw Date: _____Inventor's Signature:  Date: 7/23/99
Guo-Liang YuInventor's Signature: Ping Feng Date: _____Inventor's Signature: Patrick J. Dillon Date: _____Inventor's Signature: Gregory A. Endress Date: _____Inventor's Signature: Kenneth C. Carter. Date: _____Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

Ref No: PZ007P1
Serial No. 09/205,258**ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Jing-Shan Hu; Henrik S. Olsen; Reinhard Ebner; Laurie A. Brewer; Paul A. Moore; Yanggu Shi; Charles Florence; Kimberly Florence; David W. Lafleur; Jian Ni; Ping Fan; Ying-Fei Wei; Carrie L. Fischer; Daniel R. Soppet; Yi Li; Zhizhen Zeng; Hla Kyaw; Guo-Liang Yu; Ping Feng; Patrick J. Dillon; Gregory A. Endress; and Kenneth C. Carter, hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

207 Human Secreted Proteins

for which application for United States Letters Patent was filed on December 4, 1998 and assigned Serial No.09/205,258, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

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IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: _____ Date: _____
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Inventor's Signature: _____ Date: _____
John M. Greene

Inventor's Signature: _____ Date: _____
Ann M. Ferrie

Ref No: PZ007P1
Serial No. 09/205,258Inventor's Signature: Steven M. Ruben Date: _____Inventor's Signature: Craig A. Rosen Date: _____Inventor's Signature: Jing-Shan Hu Date: _____Inventor's Signature: Henrik S. Olsen Date: _____Inventor's Signature: Reinhard Ebner Date: _____Inventor's Signature: Laurie A. Brewer Date: _____Inventor's Signature: Paul A. Moore Date: _____Inventor's Signature: Yanggu Shi Date: _____Inventor's Signature: Charles Florence Date: _____Inventor's Signature: Kimberly Florence Date: _____Inventor's Signature: David W. Lafleur Date: _____Inventor's Signature: Jian Ni Date: _____Inventor's Signature: Ping Fan Date: _____Inventor's Signature: Ying-Fei Wei Date: _____Inventor's Signature: Carrie L. Fischer Date: _____

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9410 Key West Avenue, Rockville, Maryland, 20850
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Ref No: PZ007P1
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207 Human Secreted Proteins

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Patrick J. DillonInventor's Signature: Gregory A. Endress Date: 6/3/99
Gregory A. EndressInventor's Signature: _____ Date: _____
Kenneth C. Carter.Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

Ref No: PZ007P1
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Patrick J. DillonInventor's Signature: _____ Date: _____
Gregory A. EndressInventor's Signature: _____ Date: 6/5/99
Kenneth C. Carter.Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439



1700719
UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SEPTEMBER 21, 2000

PTAS

HUMAN GENOME SCIENCES, INC.
KENLEY K. HOOVER
9410 KEY WEST AVENUE
ROCKVILLE, MARYLAND 20850



101457593A

44 SA

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/11/2000

REEL/FRAME: 010966/0559
NUMBER OF PAGES: 43

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
YOUNG, PAUL

DOC DATE: 06/03/1999

ASSIGNOR:
GREENE, JOHN M.

DOC DATE: 06/03/1999

ASSIGNOR:
FERRIE, ANN M.

DOC DATE: 06/10/1999

ASSIGNOR:
RUBEN, STEVEN M.

DOC DATE: 05/11/1999

ASSIGNOR:
ROSEN, CRAIG A.

DOC DATE: 05/10/1999

ASSIGNOR:
HU, JING-SHAN

DOC DATE: 09/01/1999

ASSIGNOR:
OLSEN, HENRIK S.

DOC DATE: 05/10/1999

ASSIGNOR: EBNER, REINHARD	DOC DATE: 05/10/1999
ASSIGNOR: BREWER, LAURIE A.	DOC DATE: 06/10/1999
ASSIGNOR: MOORE, PAUL A.	DOC DATE: 05/13/1999
ASSIGNOR: SHI, YANGGU	DOC DATE: 05/14/1999
ASSIGNOR: FLORENCE, CHARLES	DOC DATE: 05/17/1999
ASSIGNOR: FLORENCE, KIMBERLY	DOC DATE: 05/13/1999
ASSIGNOR: LAFLEUR, DAVID W.	DOC DATE: 05/13/1999
ASSIGNOR: NI, JIAN	DOC DATE: 05/12/1999
ASSIGNOR: FAN, PING	DOC DATE: 06/11/1999
ASSIGNOR: WEI, YING-FEI	DOC DATE: 07/20/1999
ASSIGNOR: FISCHER, CARRIE L.	DOC DATE: 05/10/1999
ASSIGNOR: SOPPET, DANIEL R.	DOC DATE: 05/11/1999
ASSIGNOR: LI, YI	DOC DATE: 06/28/1999
ASSIGNOR: ZENG, ZHIZHEN	DOC DATE: 06/11/1999
ASSIGNOR: KYAW, HLA	DOC DATE: 05/11/1999
ASSIGNOR: YU, GUO-LIANG	DOC DATE: 07/23/1999
ASSIGNOR: FENG, PING	DOC DATE: 06/07/1999
ASSIGNOR: DILLON, PATRICK J.	DOC DATE: 05/11/1999

ASSIGNOR:
ENDRESS, GREGORY A.

DOC DATE: 05/11/1999

ASSIGNOR:
CARTER, KENNETH C.

DOC DATE: 05/11/1999

ASSIGNEE:
HUMAN GENOME SCIENCES, INC.
9410 KEY WEST AVENUE
ROCKVILLE, MARYLAND 20850

SERIAL NUMBER: 09205258
PATENT NUMBER:

FILING DATE: 12/04/1998
ISSUE DATE:

MARCUS KIRK, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231



101457593B

AUTHORIZATION TO CHARGE ADDITIONAL FEES TO DEPOSIT ACCOUNT

SEPTEMBER 21, 2000

TO: OFFICE OF FINANCE
FROM: ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS
SUBJECT: DEPOSIT ACCOUNT CHARGE(S)

CHARGE THE DEPOSIT ACCOUNT LISTED BELOW ADDITIONAL FEE(S) AS INDICATED BELOW. AUTHORIZATION TO CHARGE ADDITIONAL FEES HAS BEEN PROVIDED PER THE ATTACHED COVER SHEET, OR BY DIRECT CONTACT WITH THE CUSTOMER.

DEPOSIT ACCOUNT NUMBER: 083425
PROPERTY NUMBER: 09205258

RECORDING FEES:

FEE CODE: 581 AMOUNT: 40

IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE, YOU MAY CONTACT THE INDIVIDUAL WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.

MARCUS KIRK, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

TRADEMARK SERVICE FEES:	FEE CODE:
RECORDING FIRST MARK	481
RECORDATION SECOND AND SUBSEQUENT MARK IN SAME DOCUMENT	482
LABOR CHARGES FOR SERVICES PER HOURS OR FRACTION THEREOF	484
UNSPECIFIED OTHER SERVICES	485

PATENT SERVICE FEES:

RECORDING EACH PATENT ASSIGNMENT,	581
-----------------------------------	-----

AGREEMENT, OTHER PAPER, PER PROPERTY	
LABOR CHARGES FOR SERVICES PER HOUR	584
(\$30) OR FRACTION THEREOF	
UNSPECIFIED OTHER SERVICES	585

09-21-2000

JOS 8439

PAGE

U.S. P
BOX ASSIGNMENTS
Case Docket No. PZ007P1



DEPARTMENT OF COMMERCE
Patent and Trademark Office

101457593

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks.
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- Paul Young Executed on Jun-03-99
- John M. Greene Executed on Jun-03-99
- Ann M. Ferrie Executed on Jun-10-99
- Steven M. Ruben Executed on May-11-99
- Craig A. Rosen Executed on May-10-99
- Jing-Shan Hu Executed on Sep-01-99
- Henrik S. Olsen Executed on May-10-99
- Reinhard Ebner Executed on May-10-99
- Laurie A. Brewer Executed on Jun-10-99
- Paul A. Moore Executed on May-13-99
- Yanggu Shi Executed on May-14-99
- Charles Florence Executed on May-17-99

- Kimberly Florence Executed on May-13-99
- David W. Lafleur Executed on May-13-99
- Jian Ni Executed on May-12-99
- Ping Fan Executed on Jun-11-99
- Ying-Fei Wei Executed on Jul-20-99
- Carrie L. Fischer Executed on May-10-99
- Daniel R. Soppet Executed on May-11-99
- Yi Li Executed on Jun-28-99
- Zhizhen Zeng Executed on Jun-11-99
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- Guo-Liang Yu Executed on Jul-23-99
- Ping Feng Executed on Jun-07-99
- Patrick J. Dillon Executed on May-11-99
- Gregory A. Endress Executed on May-11-99
- Kenneth C. Carter Executed on May-11-99

3. Additional name(s) of conveying party(ies) attached?

Yes ☐ No ☒

Nature of conveyance

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

4-11-00

2. Name and address of receiving party(ies):

Name: Human Genome Sciences, Inc.
Street Address 9410 Key West Avenue
City Rockville, Maryland 20850

Additional name(s) attached?

Yes ☐ No ☒

4. Title 207 Human Secreted Proteins

5. Application number (s) or patent numbers (s)

A. Patent Application No. (s)
09/205,258 Filed: Dec-04-98

If this document is being filed together with a new application, the execution date of the application is:

B. Patent No.
Additional numbers attached?
Yes ☐ No ☒

Name and address of party to whom correspondence concerning documents should be mailed:

Human Genome Sciences, Inc.
9410 Key West Avenue
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Telephone: 301-309-8504 Facsimile: 301-309-8439

40E

7. Total of applications and patents involved

1

Total fee (37 CFR 3.41) \$40.00

8. Total Filing Fee (By check in total of filing fee and Assignment Recordation Fee)

☐ Authorized to be charged to Deposit Account☒ Deposit Account No. 08-34259. Def ☒ Attached duplicated copy of this page if paying by deposit account

10. If any additional fees due in connection with the recordation of this assignment, please charge the same to Deposit No. 08-3425

11. Statement and Signature
The best of my knowledge and belief, the foregoing information is true and correct and the attached copy is a true copy of the original document.

Kenley K. Hoover
Name of Person Signing
Registration No. 40,302

Signature

Date

April 11 2000